

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 481112.410C1		APPLICATION NO. 10 780/06	
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				APPLICANT James B. Dale			
				FILING DATE February 17, 2004		GROUP ART UNIT 1645	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
/SD/	AA	4,284,537	08/18/81	Beachey	260	6	
/SD/	AB	4,454,121	06/12/84	Beachey	424	177	
/SD/	AC	4,521,334	06/04/85	Beachey	260	112.5 R	
/SD/	AD	4,597,967	07/01/86	Beachey	424	88	
/SD/	AE	4,705,684	11/10/87	Beachey	424	88	
/SD/	AF	4,784,948	11/15/88	Scott et al. [copy enclosed]	435	68	
/SD/	AG	4,919,930	04/24/90	Beachey et al.	424	88	
/SD/	AH	5,124,153	06/23/92	Beachey et al.	424	93	
/SD/	AI	5,334,379	08/02/94	Pillai et al.	424	85.2	
/SD/	AJ	5,985,654	11/16/99	Fischetti et al.	435	320.1	
/SD/	AK	6,063,386	05/16/00	Dale et al.	424	244.1	
/SD/	AL	6,419,932	07/16/02	Dale	424	244.1	
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION YES NO	
/SD/	AM	WO 94/06421	03/31/94	PCT			
/SD/	AN	WO 94/06465	03/31/94	PCT [copy enclosed]			
/SD/	AO	WO 00/37648	06/29/00	PCT [copy enclosed]			
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
/SD/	AP	Ada, <i>Fundamental Immunology</i> , William E. Paul, M.D. (ed.), 2 nd Edition, Raven Press, New York, 1989, pp. 1010-1011.					
/SD/	AQ	Baird et al., "Epitopes Of Group A Streptococcal M Protein Shared With Antigens Of Articular Cartilage And Synovim," <i>The Journal Of Immunology</i> 146(9):3132-3137, 1991.					
/SD/	AR	Beachey and Ofek, "Epithelial Cell Binding Of Group A Streptococci By Lipoteichoic Acid On Fimbriae Denuded Of M Protein," <i>The Journal Of Experimental Medicine</i> 143:759-771, 1976.					
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BA							
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					YES	NO	
BB							
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
/SD/	BC	Beachey and Seyer, "Protective And Nonprotective Epitopes Of Chemically Synthesized Peptides Of The NH ₂ -Terminal Region Of Type 6 Streptococcal M Protein," <i>The Journal Of Immunology</i> 136(6):2287-2292, 1986.					
/SD/	BD	Beachey and Seyer, <i>Seminars in Infectious Disease. Volume IV Bacterial Vaccines</i> , Thieme-Stratton Inc., New York, New York, 1982, Chapter Fifty-Seven, "Primary Structure And Immuno-Chemistry Of Group A Streptococcal M Proteins," pp. 401-410.					
/SD/	BE	Beachey and Stollerman, "Mediation of Cytotoxic Effects of Streptococcal M Protein by Nontype-Specific Antibody in Human Sera," <i>The Journal of Clinical Investigation</i> 52:2563-2570, 1973.					
/SD/	BF	Beachey and Stollerman, "Toxic Effects Of Streptococcal M Protein On Platelets And Polymorphonuclear Leukocytes In Human Blood," <i>The Journal Of Experimental Medicine</i> 134:351-365, 1971.					
/SD/	BG	Beachey et al., "Human Immune Response To Immunization With a Structurally Defined Polypeptide Fragment Of Streptococcal M Protein," <i>J. Exp. Med.</i> 150:862-877, 1979.					
/SD/	BH	Beachey et al., "Immunogenicity In Animals And Man Of A Structurally Defined Polypeptide Of Streptococcal M Protein," <i>Transactions Of The Association Of American Physicians, Volume XCII</i> :pp.346-354, 1979.					
/SD/	BI	Beachey et al., "Opsonic Antibodies Evoked By Hybrid Peptide Copies Of Types 5 and 24 Streptococcal M Proteins Synthesized In Tandem," <i>J. Exp. Med.</i> 163: 1451-1458, 1986.					
/SD/	BJ	Beachey et al., "Peptic Digestion of Streptococcal M Protein. II. Extraction of M Antigen from Group A Streptococci With Pepsin," <i>Infection And Immunity</i> 9(5):891-896, 1974.					
/SD/	BK	Beachey et al., "Primary Structure of Protective Antigens of Type 24 Streptococcal M Protein," <i>The Journal Of Biological Chemistry</i> 255(13):6284-6289, 1980.					
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						YES	NO
/	CB						
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
/SD/	CC	Beachey et al., "Protective Immunogenicity And T Lymphocyte Specificity Of A Trivalent Hybrid Peptide Containing NH ₂ -Terminal Sequences Of Types 5, 6, And 24 M Proteins Synthesized In Tandem," <i>The Journal Of Experimental Medicine</i> 166:647-656, 1987.					
/SD/	CD	Beachey et al., "Purification And Properties Of M Protein Extracted From Group A Streptococci With Pepsin: Covalent Structure Of The Amino Terminal Region Of Type 24 M Antigen," <i>The Journal Of Experimental Medicine</i> 145:1469-1483, 1977					
/SD/	CE	Beachey et al., "Repeating Covalent Structure and Protective Immunogenicity of Native and Synthetic Polypeptide Fragments of Type 24 Streptococcal M Protein," <i>The Journal Of Biological Chemistry</i> 258(21):13250-13257, 1983.					
/SD/	CF	Beachey et al., "Repeating covalent structure of streptococcal M protein," <i>Proc. Natl. Acad. Sci. USA</i> 75(7):3163-3167, 1978.					
/SD/	CG	Beachey et al., "Separation Of The Type Specific M Protein From Toxic Cross Reactive Antigens Of Group A Streptococci," <i>Transactions Of The Association Of American Physicians. Ninetieth Session Volume XC: pp. 390-400, 1977.</i>					
/SD/	CH	Beachey et al., "Type-specific protective immunity evoked by synthetic peptide of <i>Streptococcus pyogenes</i> M Protein," <i>Nature (London)</i> 292:457-459, 1981.					
/SD/	CI	Beall et al., "Sequencing <i>emm</i> -Specific PCR Products for Routine and Accurate Typing of Group A Streptococci," <i>Journal of Clinical Microbiology</i> 34(4):953-958, April 1996.					
/SD/	CJ	Blenden et al., "Growth of <i>Listeria monocytogenes</i> in a Corn Silage Extract Medium," <i>American Journal Of Veterinary Research</i> 29(11):2237-2242, 1968.					
/SD/	CK	Bricas et al., "Structure Et Synthese De La Subunite Peptide De La Paroi De Trois Bacteries Gram-Postif," <i>Peptides. Proceedings of the Eight European Peptide Symposium September 1966, Noordwijk, Neth.</i> , North-Holland Publishing Company: Amsterdam, Neth. And Interscience Publishers Division, John Wiley and Sons, Inc., New York, 1967, 286-292 (+ <i>Biological Abstracts</i> 50(4):Abstract No. 20361, 1936).					
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OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
/SD/	DC	Bronze et al., "Protective And Heart-Cross Reactive Epitopes Located Within The NH ₂ Terminus Of Type 19 Streptococcal M Protein," <i>The Journal Of Experimental Medicine</i> 167:1849-1859, 1988.					
/SD/	DD	Chou and Fasman, "Prediction of Protein Conformation," <i>Biochemistry</i> 13(2):222-245, 1974.					
/SD/	DE	Cunningham and Beachey, "Peptic Digestion of Streptococcal M Protein. I. Effect of Digestion at Suboptimal pH upon the Biological and Immunochemical Properties of Purified M Protein Extracts," <i>Infection And Immunity</i> 9(2):244-248, 1974.					
/SD/	DF	Cunningham et al., "Human And Murine Antibodies Cross-Reactive With Streptococcal M Protein And Myosin Recognize The Sequence Gln-Lys-Ser-Lys-Gln In M Protein," <i>The Journal Of Immunology</i> 143(8):2677-2683, 1989.					
/SD/	DG	Dale, "Group A Streptococcal Vaccines," <i>New Vaccines And New Vaccine Technology</i> 13(1):227-243, 1999.					
/SD/	DH	Dale, "Group A Streptococcal Vaccines," <i>Pediatric Annals</i> 27:301-308, 1998.					
/SD/	DI	Dale, "Multivalent group A streptococcal vaccine designed to optimize the immunogenicity of six tandem M protein fragments," <i>Vaccine</i> 17:193-200, 1999.					
/SD/	DJ	Dale and Beachey, "Multiple, Heart-Cross-Reactive Epitopes Of Streptococcal M Proteins," <i>Journal Of Experimental Medicine</i> 161:113-122, January 1985.					
/SD/	DK	Dale and Beachey, "Epitopes Of Streptococcal M Proteins Shared With Cardiac Myosin," <i>The Journal Of Experimental Medicine</i> 162:583-591, 1985.					
/SD/	DL	Dale and Beachey, "Localization Of Protective Epitopes Of The Amino Terminus Of Type 5 Streptococcal M Protein," <i>The Journal Of Experimental Medicine</i> 163:1191-1202, 1986.					
EXAMINER <div style="text-align: right;">/S. Devi/</div>				DATE CONSIDERED <div style="text-align: right;">03/20/2007</div>			
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						YES	NO
EB							
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
/SD/	EC	Dale and Beachey, "Sequence Of Myosin-Crossreactive Epitopes Of Streptococcal M Protein," <i>Journal Of Experimental Medicine</i> 164:1785-1790, 1986.					
/SD/	ED	Dale et al., "Heterogeneity Of Type-Specific And Cross-Reactive Antigenic Determinants Within A Single M Protein Of Group A Streptococci," <i>The Journal Of Experimental Medicine</i> 151:1026-1038, 1980.					
/SD/	EE	Dale et al., "Blastogenic Responses Of Human Lymphocytes To Structurally Defined Polypeptide Fragments Of Streptococcal M Protein," <i>The Journal Of Immunology</i> 126(4):1499-1505, 1981.					
/SD/	EF	Dale et al., "Type-Specific Immunogenicity Of A Chemically Synthesized Peptide Fragment Of Type 5 Streptococcal M Protein," <i>The Journal Of Experimental Medicine</i> 158:1727-1732, 1983.					
/SD/	EG	Dale et al., "Recombinant Tetravalent Group A Streptococcal M Protein Vaccine," <i>Journal of Immunology</i> 151(4):2188-2194, August 15, 1993.					
/SD/	EH	Dale et al., "Intranasal immunization with recombinant group A streptococcal M protein fragment fused to the B subunit of Escherichia coli labile toxin protects mice against systemic challenge infections," <i>Journal of Infectious Diseases</i> 171(4):1038-1041, April 1995 (abstract).					
/SD/	EI	Dale et al., "Hyaluronate Capsule and Surface M Protein in Resistance to Opsonization of Group A Streptococci," <i>Infection And Immunity</i> 64(5):1495-1501, 1996.					
/SD/	EJ	Dale et al., "New protective antigen of group A streptococci," <i>J. Clin. Invest.</i> 103(9):1261-1268, 1999.					
/SD/	EK	Dale et al., "Recombinant, octavalent group A streptococcal M protein vaccine", <i>Vaccine</i> 14(10):944-948, July 1996.					
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					YES	NO	
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
/SD/	FC	Dixit et al., "Covalent Structure of Collagen: Amino Acid Sequence of α 1-CB6A of Chick Skin Collagen," <i>Biochemistry</i> 14(9):1933-1938, 1975.					
/SD/	FD	Edman and Begg, "A Protein Sequenator," <i>European J. Biochem.</i> 1:80-91, 1967.					
/SD/	FE	Fischetti et al., "Surface Proteins form Gram-Positive Cocci Share Unique Structural Features," in Orefici (ed.), <i>New Persepectives on Streptococci and Streptococcal Infections. Proceedings of the XI Lancefield International Symposium on Streptococci and Streptococcal Diseases</i> , Siena, Italy, September 10-14, 1990, Gustav Fischer verlag, Stuttgart, Jena, New York, 1992, pp. 165-167.					
/SD/	FF	Fischetti, "Streptococcal M Protein," <i>Scientific American</i> :pp. 58-65, 1991.					
/SD/	FG	Fischetti et al., "Protection Against Streptococcal Pharyngeal Colonization with a Vaccinia: M Protein Recombinant," <i>Science</i> 244:1487-1490, 1989.					
/SD/	FH	Freimer and McCarty, "Rheumatic Fever," <i>Scientific American</i> 213(6):67-74, 1965.					
/SD/	FI	Gibbons et al., "Studies of Individual Amino Acid Residues of the Decapeptide Tyrocidine A by Proton Double-Resonance Difference Spectroscopy in the Correlation Mode," <i>Biochemistry</i> 14(2):420-437, 1975.					
/SD/	FJ	Goldsberg et al., "Serological Demonstration of H-Y (Male) Antigen on Mouse Sperm," <i>Nature</i> 232:478-480, 1971.					
/SD/	FK	Hollingshead et al., "Complete Nucelotide Sequence of Type 6 M Protein of the Group A <i>Streptococcus</i> ," <i>The Journal Of Biological Chemistry</i> 261(4):1677-1686, 1986.					
/SD/	FL	Hopp and Woods, "Prediction of protein antigenic determinants from amino acid sequences," <i>Proc. Natl. Acad. Sci. USA</i> 78(6):3824-3828, 1981.					
/SD/	FM	Hruby et al., "Assembly and analysis of a functional vaccinia virus 'amplicon' containing the C-repeat region from the M protein of <i>Streptococcus pyogenes</i> ," <i>Procedures of the National Academy of Sciences USA</i> 88:3190-3194, April 1991.					
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GA							
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				YES NO			
GB							
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
/SD/	GC	Jones et al., "Differential Effects Of Antibodies To Lyt-2 And L3 T4 On Cytolysis By Cloned, Ia-Restricted T Cells Expressing Both Proteins," <i>The Journal Of Immunology</i> 139(2):380-384, 1987.					
/SD/	GD	Kang, "Studies on the Location of Intermolecular Cross-Links in Collagen. Isolation of a CNBr Peptide Containing δ -Hydroxylysine norleucine," <i>Biochemistry</i> 11(10):1828-1835, 1972.					
/SD/	GE	Kang and Gross, "Amino Acid Sequence of Cyanogen Bromide Peptides from the Amino-Terminal Region of Chick Skin Collagen," <i>Biochemistry</i> 9(4):796-804, 1970.					
/SD/	GF	Kaplan et al., "Group A Streptococcal Serotypes Isolated from Patients and Sibling Contacts During the Resurgence of Rheumatic Fever in the United States in the Mid-1980s," <i>The Journal Of Infectious Diseases</i> 159(1):101-103, 1989.					
/SD/	GG	Koch et al., "Purification And Structural Analysis Of Streptolysin S (SLS)," <i>Federation Proceedings</i> 42(7): p. 1810, Abstract No. 309, 1983.					
/SD/	GH	Kraus et al., "Identification Of An Epitope Of Type 1 Streptococcal M Protein That Is Shared With A 43-kDa Protein Of Human Myocardium And Renal Glomeruli," <i>The Journal Of Immunology</i> 145(12):4089-4093, 1990.					
/SD/	GI	Kraus et al., "Sequence And Type-Specific Immunogenicity Of The Amino-Terminal Region Of Type 1 Streptococcal M Protein," <i>The Journal Of Immunology</i> 139(9):3084-3090, 1987.					
/SD/	GJ	Lancefield, "Persistence Of Type-Specific Antibodies In Man Following Infection With Group A Streptococci," <i>J. Exp. Med.</i> 110:271-292, 1959.					
/SD/	GK	Laver et al., "Antigenic drift in type A influenza virus: Peptide mapping and antigenic analysis of A/PR/8/34 (HON1) variants selected with monoclonal antibodies," <i>Proc. Natl. Acad. Sci. USA</i> 76(3):1425-1429, 1979.					
/SD/	GL	Lockey, "Urticaria of Unknown Origin," <i>Hospital Practice</i> : pp. 49-57, 1979.					
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HB							
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/SD/	HC	Manjula and Fischetti, "Tropomyosin-Like Seven Residue Periodicity In Three Immunologically Distinct Streptococcal M Proteins And Its Implications For The Antiphagocytic Property Of The Molecule," <i>J. Exp. Med.</i> 151:695-708, 1980.					
/SD/	HD	Marston and Hartley, "Solubilization of Protein Aggregates," in <i>Methods in Enzymology, Guide to Protein Purification</i> , ed. MP Deutscher, vol. 182, section 20, pp. 264-276, 1991.					
/SD/	HE	Miller et al., "Antigenic Variation among Group A Streptococcal M Proteins," <i>The Journal Of Biological Chemistry</i> 263(12):5668-5673, 1988.					
/SD/	HF	Miller et al., "Conservation of Protective and Nonprotective Epitopes in M Proteins of Group A Streptococci," <i>Infection And Immunity</i> 56(8):2198-2204, 1988.					
/SD/	HG	Mori et al., "Persistent Elevation of ImmunoglobulinG Titer against the C Region of Recombinant Group A Streptococcal M Protein in Patients with Rheumatic Fever," <i>Pediatric Research</i> 39(2): 336-342, 1996.					
/SD/	HH	Mouw et al., "Molecular Evolution of Streptococcal M Protein: Cloning and Nucleotide Sequence of the Type 24 M Protein Gene and Relation to Other Genes of <i>Streptococcus pyogenes</i> ," <i>Journal Of Bacteriology</i> 170(2):676-684, 1988.					
/SD/	HI	Phillips, Jr. et al., "Streptococcal M protein: α -Helical coiled-coil structure and arrangement on the cell surface," <i>Proc. Natl. Acad. Sci. USA</i> 78(8):4689-4693, 1981.					
/SD/	HJ	Podbielski et al., "Application of the polymerase chain reaction to study the M protein(-like) gene family in beta-hemolytic streptococci," <i>Med. Microbiol. Immunol.</i> 180:213-227, 1991.					
/SD/	HK	Rijn et al., "Group A Streptococcal Antigens Cross-Reactive With Myocardium," <i>The Journal of Experimental Medicine</i> 146:579-599, 1977.					
/SD/	HL	Robbins et al., " <i>Streptococcus pyogenes</i> Type 12 M Protein Gene Regulation by Upstream Sequences," <i>Journal Of Bacteriology</i> 169(12):5633-5640, 1987.					
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/SD/	IC	Sargent et al., "Sequence Of Protective Epitopes Of Streptococcal M Proteins Shared With Cardiac Sarcolemmal Membranes," <i>The Journal Of Immunology</i> 139(4):1285-1290, 1987.					
/SD/	ID	Seyer and Kang, "Covalent Structure of Collagen: Amino Acid Sequence of Cyanogen Bromide Peptides from the Amino-Terminal Segment of Type III Collagen of Human Liver," <i>Biochemistry</i> 16(6):1158-1164, 1977.					
/SD/	IE	Seyer et al., "Primary Structural Similarities Between Types 5 And 24 M Proteins Of Streptococcus pyogenes," <i>Biochemical And Biophysical Research Communications</i> 92(2):546-553, 1980.					
/SD/	IF	Smithies et al., "Quantitative Procedures for Use with the Edman-Begg Sequenator. Partial Sequences of Two Unusual Immunoglobulin Light Chains, Rz1 and Sac," <i>Biochemistry</i> 10(26):4912-4921, 1971.					
/SD/	IG	Vashishtha et al., Reactivity of Antisera to Peptides Corresponding to the C-repeat Region of Streptococcal M Protein with Mammalian Coiled-Coil Proteins," <i>Abstracts Of The 91st General Meeting of the Society for Microbiology</i> 1991:p. 129, Abstract No. E-66, 1991					
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EXAMINER /S. Devi/				DATE CONSIDERED 03/20/2007			
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